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### Claims

1. A method for updating first data, which have an associated first index, on a disk storage medium by
  - 5 - storing second data (S7, S8), which update the stock of data in the first data, on the disk storage medium,
  - creating a second index (S3) and
  - storing the second index (S7) on the disk storage  
10 medium,wherein
  - the second index is associated exclusively with the second data and is stored on the disk storage medium as a supplement to the first index.  
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2. The method as claimed in claim 1, where the disk storage medium is an optical, rewritable disk with a limited number of storage cycles.
- 20 3. The method as claimed in claim 1 or 2, where the second index is stored radially as close as possible to the first index.
4. The method as claimed in one of the preceding  
25 claims, where the second index is stored in unfragmented form.
5. The method as claimed in one of the preceding claims, where third data updating the stock of data in  
30 the second data are stored on the disk storage medium, and a third index relating to the second and third data is written over the second index.
6. The method as claimed in one of the preceding  
35 claims, where an identification number which characterizes a property of the disk storage medium and/or the latter's relationship to the second or third data is ascertained (S4) and is compared with a

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prescribable threshold value (S5), so that the comparison defines whether a second or third index is used or a new overall index relating to all of the data stored on the disk storage medium is created (S6).

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7. The method as claimed in claim 6, where elements of the second and third indices are combined, so that the prescribable threshold value is undershot.

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8. The method as claimed in claim 6 or 7, where the prescribable threshold value is dependent on a state of the disk storage medium.

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9. An apparatus for storing data on a disk storage medium, having

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- a writing device for writing (S7, S8) first data and second data, which update the stock of data in the first data, to the disk storage medium and for writing a first index relating to the first data to the disk storage medium,
- a signal processing device for creating the first index,

wherein

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- the signal processing device may also be used to create a second index relating exclusively to the second data (S3), and
- the writing device may be used to write the second index to the disk storage medium as a supplement to the first index (S7).

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10. The apparatus as claimed in claim 9, where the disk storage medium is an optical, rewritable disk.

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11. The apparatus as claimed in claim 9 or 10, where third data updating the stock of data in the second data can be stored on the disk storage medium, and a third index relating to the second and third data can be written over the second index.

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12. The apparatus as claimed in one of claims 9 to 11,  
which has an identification number ascertainment device  
for ascertaining (S4) an identification number which  
5 characterizes a property of the disk storage medium  
and/or the latter's relationship to the second or third  
data, and a comparison device for comparing (S5) the  
identification number with a prescribable threshold  
value, so that a comparison may be used to establish  
10 whether a second or third index needs to be used or a  
new overall index relating to all of the data stored on  
the disk storage medium needs to be created (S6).

13. The apparatus as claimed in claim 12, where the  
15 signal processing device may be used to combine  
elements of the second and third indices, so that the  
prescribable threshold value is undershot.

14. The apparatus as claimed in claim 12 or 13, where  
20 the prescribable threshold value in the comparison  
device is in a form which is dependent on a state of  
the disk storage medium.

15. A disk storage medium having  
25 - first data stored thereon,  
- second data stored thereon which update the stock  
of data in the first data, and  
- a first index, stored thereon, relating to the  
first data,  
30 characterized by  
- a second index which relates exclusively to the  
second data and is stored on the disk storage  
medium as a supplement to the first index.

35 16. The disk storage medium as claimed in claim 15,  
which is in the form of an optical, rewritable disk.

17. The disk storage medium as claimed in claim 15 or

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16, where the second index is stored radially close or directly next to the first index.

18. The disk storage medium as claimed in of claims 15  
5 to 17, where the second index is stored in unfragmented form.